

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/013575

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01G9/155

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01G D01F C10C C01B H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | US 2003/139009 A1 (FUJINO TAKESHI ET AL) 24 July 2003 (2003-07-24) | 1 |
| X | paragraphs '0021!, '0023! - '0029!; tables 2-5 | 1-5 |
| Y | the whole document | 6,7 |
| X | US 2002/154467 A1 (NAKAZAWA YUTAKA ET AL) 24 October 2002 (2002-10-24) | 1 |
| X | claim 1 | 1 |
| A | the whole document | 1-5 |
| Y | paragraphs '0038!, '0039!, '0046! | 6,7 |
| Y | US 2002/027305 A1 (KIBI YUKARI ET AL) 7 March 2002 (2002-03-07) | 6,7 |
| Y | paragraph '0023! | 6,7 |
| A | US 2003/043532 A1 (NOGUCHI MINORU ET AL) 6 March 2003 (2003-03-06) the whole document | 1-7 |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

18 February 2005

Date of mailing of the international search report

02/03/2005

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Information on patent family members

International Application No

PCT/JP2004/013575

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|---|----|---------------------|----|----------------------------|---------------------|
| US 2003139009 | A1 | 24-07-2003 | JP | 2003045758 A | 14-02-2003 |
| | | | DE | 10222844 A1 | 30-01-2003 |
| US 2002154467 | A1 | 24-10-2002 | JP | 2002231585 A | 16-08-2002 |
| | | | GB | 2374729 A , B | 23-10-2002 |
| | | | TW | 518621 B | 21-01-2003 |
| US 2002027305 | A1 | 07-03-2002 | JP | 11121300 A | 30-04-1999 |
| US 2003043532 | A1 | 06-03-2003 | JP | 2003031450 A | 31-01-2003 |

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